SEARCH TRANSCRIPT
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> s deliquesence
L1            3 DELIQUESENCE

=> d 1-3

L1   ANSWER 1 OF 3  CAPLUS  COPYRIGHT 2003 ACS
AN   1983:621914  CAPLUS
DN   99:221914
TI   A high-performance KD*P index-matching liquid
AU   Kuang, Shexi; Huo, Changzhen; Hong, Shunkun; Xie, Zhongli
CS   Anhui Inst. Opt. Fine Mech., Acad. Sin., Hefei, Peop. Rep. China
SO   Zhongguo Jiguang (1983), 10(3), 191
     CODEN: ZHJIDO; ISSN: 0258-7025
DT   Journal
LA   Chinese

L1   ANSWER 2 OF 3  CAPLUS  COPYRIGHT 2003 ACS
AN   1980:452724  CAPLUS
DN   93:52724
TI   Deliquescence properties and particle size change of hygroscopic aerosols
AU   Tang, Ignatius N.
CS   Dep. Energy Environ., Brookhaven Natl. Lab., Upton, NY, 11973, USA
SO   Gener. Aerosols Facil. Exposure Exp., [Tech. Pap. Symp.] (1980), Meeting
     Date 1979, 153-67.  Editor(s): Willeke, Klaus. Publisher: Ann Arbor Sci.,
     Ann Arbor, Mich.
     CODEN: 42VIAR
DT   Conference
LA   English

L1   ANSWER 3 OF 3  CAPLUS  COPYRIGHT 2003 ACS
AN   1978:154729  CAPLUS
DN   88:154729
TI   Improving the deliquescence of fructose
IN   Kubota, Hiroshi
PA   Kawazu Sangyo Co., Ltd., Japan
SO   Jpn. Kokai Tokkyo Koho, 4 pp.
     CODEN: JKXXAF
DT   Patent
LA   Japanese
FAN.CNT 1
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   JP 53021113        A2   19780227       JP 1976-94701    19760809
     JP 54022962        B4   19790810
PRAI JP 1976-94701           19760809


=> s potassium carbonate
        465767 POTASSIUM
            15 POTASSIUMS
        465770 POTASSIUM
                  (POTASSIUM OR POTASSIUMS)
        221236 CARBONATE
         56450 CARBONATES
        250352 CARBONATE
                  (CARBONATE OR CARBONATES)
L2       12597 POTASSIUM CARBONATE
                  (POTASSIUM(W)CARBONATE)
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=> s l2 and water-absorbing
       1980911 WATER
        218050 WATERS
       2031231 WATER
                 (WATER OR WATERS)
         65386 ABSORBING
             1 ABSORBINGS
         65386 ABSORBING
                 (ABSORBING OR ABSORBINGS)
          4514 WATER-ABSORBING
                 (WATER(W)ABSORBING)
L3            6 L2 AND WATER-ABSORBING

=> d 1-6

L3   ANSWER 1 OF 6  CAPLUS  COPYRIGHT 2003 ACS
AN   2000:252088  CAPLUS
DN   132:266248
TI   Cellular polyurethane thermally insulating walls for refrigerators or
     freezers and their manufacture
IN   Yuasa, Akiko; Nakamoto, Hideo; Tsuda, Yoshiyuki
PA   Matsushita Refrigeration Co., Japan
SO   Jpn. Kokai Tokkyo Koho, 12 pp.
     CODEN: JKXXAF
DT   Patent
LA   Japanese
FAN.CNT 1
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   JP 2000109593      A2   20000418       JP 1998-283672   19981006
PRAI JP 1998-283672           19981006

L3   ANSWER 2 OF 6  CAPLUS  COPYRIGHT 2003 ACS
AN   2000:62561  CAPLUS
DN   132:126624
TI   Method and apparatus for applying of castable refractories for uniform
     structure and spalling resistance
IN   Matsuo, Kazuaki; Saito, Koji
PA   Toshiba Ceramics Co., Ltd., Japan
SO   Jpn. Kokai Tokkyo Koho, 6 pp.
     CODEN: JKXXAF
DT   Patent
LA   Japanese
FAN.CNT 1
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   JP 2000026169      A2   20000125       JP 1998-207076   19980708
PRAI JP 1998-207076           19980708

L3   ANSWER 3 OF 6  CAPLUS  COPYRIGHT 2003 ACS
AN   1998:263277  CAPLUS
DN   128:325921
TI   Treating material for polychlorobiphenyl-containing oils
IN   Taguchi, Yoshio
PA   Taguchi, Hiromi, Japan
SO   U.S., 10 pp.
     CODEN: USXXAM
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   US 5744689         A    19980428       US 1996-738477   19961028
```

PRAI US 1996-738477 19961028

L3 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2003 ACS
AN 1997:154679 CAPLUS
DN 126:161153
TI Agents and process for stabilizing waste soils
IN Ueda, Yasutaka; Myazaki, Hideo; Fujita, Hiroshi
PA Sumitomo Seika Kk, Japan
SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08333573	A2	19961217	JP 1995-163006	19950606
PRAI	JP 1995-163006		19950606		

L3 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2003 ACS
AN 1993:519448 CAPLUS
DN 119:119448
TI Reactive dye-fixing agent compositions and process for fixing dyes on fibers
IN Yabushita, Shinichi; Nishinaka, Masatake
PA Sumitomo Chemical Co, Japan
SO Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05117982	A2	19930514	JP 1991-273798	19911022
PRAI	JP 1991-273798		19911022		

OS MARPAT 119:119448

L3 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2003 ACS
AN 1990:35890 CAPLUS
DN 112:35890
TI Process of preparing acrylamides and methacrylamides
IN Ibi, Akira; Kitagawa, Masanori Mutsunoryo; Takeuchi, Koichi; Sagawa, Eiichi; Ohkawado, Etsuo
PA Mitsui Toatsu Chemicals, Inc., Japan
SO Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 321256	A2	19890621	EP 1988-311899	19881216
	EP 321256	A3	19901010		
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
	JP 01250371	A2	19891005	JP 1988-194535	19880805
	CA 1322750	A1	19931005	CA 1988-585026	19881205
	US 4978754	A	19901218	US 1988-282687	19881212
PRAI	JP 1987-317450		19871217		
	JP 1988-194535		19880805		
	JP 1987-199001		19870811		

OS MARPAT 112:35890

=> s hydrated potassium carbonate
54249 HYDRATED

```
            1 HYDRATEDS
        54250 HYDRATED
                (HYDRATED OR HYDRATEDS)
       465767 POTASSIUM
           15 POTASSIUMS
       465770 POTASSIUM
                (POTASSIUM OR POTASSIUMS)
       221236 CARBONATE
        56450 CARBONATES
       250352 CARBONATE
                (CARBONATE OR CARBONATES)
L4          4 HYDRATED POTASSIUM CARBONATE
                (HYDRATED(W)POTASSIUM(W)CARBONATE)

=> d 1-4

L4   ANSWER 1 OF 4  CAPLUS  COPYRIGHT 2003 ACS
AN   1987:517861  CAPLUS
DN   107:117861
TI   Dry method for preparing potassium bicarbonate
IN   Monteiro, Manuel Orestes Pereira
PA   Bicarbon Industrial e Comercial Ltda., Brazil
SO   Braz. Pedido PI, 5 pp.
     CODEN: BPXXDX
DT   Patent
LA   Portuguese
FAN.CNT 1
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   BR 8505397         A    19870526       BR 1985-5397     19851018
PRAI BR 1985-5397             19851018

L4   ANSWER 2 OF 4  CAPLUS  COPYRIGHT 2003 ACS
AN   1976:435199  CAPLUS
DN   85:35199
TI   Hydrated potassium carbonate resistant to
     caking
IN   Jelinek, Jan; Fritsch, Jan
PA   Czech.
SO   Czech., 2 pp.
     CODEN: CZXXA9
DT   Patent
LA   Czech
FAN.CNT 1
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   CS 161510          B    19750610       CS 1973-4060     19730606
PRAI CS 1973-4060             19730606

L4   ANSWER 3 OF 4  CAPLUS  COPYRIGHT 2003 ACS
AN   1967:111108  CAPLUS
DN   66:111108
TI   Preparation of the double carbonate K2CO3.2KH-CO3.1.5H2O by reaction of
     hydrated potassium carbonate and potassium
     bicarbonate in the solid state
AU   Diament, Rene
CS   Centre Rech. Soc. Etudes Chim. Ind. Agr. S.E.C.P.I.A., Argenteuil, Fr.
SO   Comptes Rendus des Seances de l'Academie des Sciences, Serie C:  Sciences
     Chimiques (1967), 264(6), 504-7
     CODEN: CHDCAQ; ISSN: 0567-6541
DT   Journal
LA   French

L4   ANSWER 4 OF 4  CAPLUS  COPYRIGHT 2003 ACS
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AN 1958:87191 CAPLUS
DN 52:87191
OREF 52:15330d-e
TI The influence of temperature and drying time in the determination of moisture in **hydrated potassium carbonate**
AU Mach, O.
CS Severoceske sklarny, n.p., Svor, Czech.
SO Silikaty (1957), 1, 293-6
DT Journal
LA Unavailable

=> d abs 2-4

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS
AB Tech. K2CO3 was crystd. from 2 l. of a concd. aq. soln. contg. 65.25% K2CO3 and 3.85% KOH in the presence of 0.4 kg octadecylamine which coated the crystals with a fine hydrophobic film. The treatment did not interfere with use of the product in the prodn. of glass.

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS
AB A mixt. of KHCO3 and K2CO3.1.5H2O, in stoichiometric proportions, is finely ground, compressed at 3 kilobars, and heated at 60.degree. for 48 hrs. to give the title compd. The final product can contain a small amt. (.ltoreq.2.7%) of each of the initial components.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS
AB A sample of K2CO3 contg. 20.23 wt. % of bound and free water was dried at 120.degree., 150.degree., and 180.degree.. At temps. above 180.degree. all the water was lost, whereas at 120.degree. and 150.degree. a const. sample wt. was obtained with 18.09 and 19.20% loss of sample wt. Equil. was approached by exponential decay with rate consts. of 0.25, 1.11, and 3.188/hr. at 120, 150, and 180.degree., resp.

=>
=> s potash and hygroscopic
9827 POTASH
8 POTASHES
9831 POTASH
(POTASH OR POTASHES)
17003 HYGROSCOPIC
2 HYGROSCOPICS
17003 HYGROSCOPIC
(HYGROSCOPIC OR HYGROSCOPICS)
L5 41 POTASH AND HYGROSCOPIC

=> s l5 and amount
28971 AMOUNT
26807 AMOUNTS
54753 AMOUNT
(AMOUNT OR AMOUNTS)
787650 AMT
497535 AMTS
1209415 AMT
(AMT OR AMTS)
1245947 AMOUNT
(AMOUNT OR AMT)
L6 12 L5 AND AMOUNT

=> d 1-12

L6 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2003 ACS
AN 1996:357458 CAPLUS

DN 125:63395
TI Mount St. Augustine volcano fumarole wall rock alteration: mineralogy, zoning, composition and numerical models of its formation process
AU Getahun, Aberra; Reed, Mark H.; Symonds, Robert
CS Department of Geological Sciences, University of Oregon, Eugene, USA
SO Journal of Volcanology and Geothermal Research (1996), 71(2-4), 73-107
CODEN: JVGRDQ; ISSN: 0377-0273
PB Elsevier
DT Journal
LA English

L6 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2003 ACS
AN 1955:73372 CAPLUS
DN 49:73372
OREF 49:13881c-i,13882a-i,13883a-c
TI Oxidation products of diisobutylene. II. Isomerization of 1,2-epoxy-2,4,4-trimethylpentane, and some products derived from 2,4,4-trimethylpentanal
AU Gasson, E. J.; Graham, A. R.; Millidge, A. F.; Robson, I. K. M.; Webster, W.; Wild, A. M.; Young, D. P.
CS Distillers Co. Ltd., Epsom, UK
SO J. Chem. Soc. (1954) 2170-9
DT Journal
LA Unavailable

L6 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2003 ACS
AN 1953:58498 CAPLUS
DN 47:58498
OREF 47:9905i,9906a-i,9907a-i,9908a-b
TI Acrylonitrile as a starting material for synthesis of amino nitriles and polyamines
AU Kost, A. N.
SO Uchenye Zapiski Moskov. Gosudarst. Univ. im. M. V. Lomonosova (1950), (No. 131), 39-97
DT Journal
LA Unavailable

L6 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2003 ACS
AN 1945:19739 CAPLUS
DN 39:19739
OREF 39:3107h-i,3108a-b
TI Moisture relations of mixed fertilizers: influence of nitrogenous materials
AU Hardesty, John O.; Yee, J. Y.; Love, Katharine S.
SO Ind. Eng. Chem. (1945), 37, 567-73
DT Journal
LA Unavailable

L6 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2003 ACS
AN 1941:27575 CAPLUS
DN 35:27575
OREF 35:4361b-i,4362a-d
TI Comparative hydrogenation of aliphatic and alicyclic azines. I. Azines of hexahydrobenzaldehyde and enanthaldehyde
AU Ugryumov, P. G.
SO J. Gen. Chem. (U. S. S. R.) (1940), 10(No. 22), 1985-94
DT Journal
LA Unavailable

L6 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2003 ACS
AN 1932:52291 CAPLUS
DN 26:52291
OREF 26:5388g-h
TI **Potash** from polyhalite by reduction process. I. Preliminary

experiments with hydrogen
AU Fraas, F.; Partridge, Everett P.
SO Ind. Eng. Chem. (1932), 24, 1028-32
DT Journal
LA Unavailable

L6 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2003 ACS
AN 1928:35437 CAPLUS
DN 22:35437
OREF 22:4199b-c
TI Fertilizer containing **potash** and nitrogen
PA Norsk Hydro-Elektrisk Kvaelstofaktieselskab
DT Patent
LA Unavailable
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	NO 45058		19280416	NO	

L6 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2003 ACS
AN 1922:23693 CAPLUS
DN 16:23693
OREF 16:4030g-i,4031a-d
TI The utilization of selenium
AU Sugie, S.
SO J. Japn. Ceram. Assoc. (1921), 341;342;343, 152-5;193-95;226-30
DT Journal
LA Unavailable

L6 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2003 ACS
AN 1921:15303 CAPLUS
DN 15:15303
OREF 15:2877e-i,2878a-i,2879a-h
TI Synthesis of homomorpholine and of benzohomomorpholine
AU v. Braun, Julius; Braunsdorf, Otto
SO Landw. Hochschule Berlin Ber. (1921), 54B, 685-703
DT Journal
LA Unavailable

L6 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2003 ACS
AN 1915:14206 CAPLUS
DN 9:14206
OREF 9:2294a-c
TI The waste liquor question of the **potash** industry
AU Berge
CS Bunzlau
SO Z. angew. Chem. (1914), 27(I), 660-2
DT Journal
LA Unavailable

L6 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2003 ACS
AN 1915:6873 CAPLUS
DN 9:6873
OREF 9:1049i,1050a-i,1051a
TI d- and l-Glyceric aldehyde
AU Wohl, A.; Momber, Fr.
CS Danzig
SO Ber. (1914), 47, 3346-58
DT Journal
LA Unavailable

L6 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2003 ACS
AN 1913:20914 CAPLUS
DN 7:20914

OREF 7:3012b-c
TI Permanently fit **hygroscopic** plastic mass for modelling.
IN von Zakrzewski, A. E.
DT Patent
LA Unavailable
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 258681		19120704	DE	

=> s l5 not l6
L7 29 L5 NOT L6

=> d 1-29

L7 ANSWER 1 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1985:580346 CAPLUS
DN 103:180346
TI Treating **potash** with anticaking agent
IN Goldsmith, Elmar L.
PA PPG Industries, Inc., Can.
SO U.S., 6 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4536418	A	19850820	US 1982-370767	19820422
	CA 1211318	A1	19860916	CA 1983-423960	19830318
PRAI	US 1982-370767		19820422		

L7 ANSWER 2 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1980:25066 CAPLUS
DN 92:25066
TI Improvement of the physicomechanical properties of **potash**. Communication I. Decreasing the hygroscopicity of **potash**
AU Dvoinov, A. N.; Krasheninnikov, S. A.; Shokin, I. N.
CS Mosk. Khim.-Tekhnol. Inst., Moscow, USSR
SO Deposited Doc. (1978), VINITI 2078-78, 13 pp. Avail.: VINITI
DT Report
LA Russian

L7 ANSWER 3 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1974:523697 CAPLUS
DN 81:123697
TI Phenomenon of the caking of **potash**
AU Dvoinov, A. N.; Shokin, I. N.; Krasheninnikov, S. A.
CS USSR
SO Trudy Instituta - Moskovskii Khimiko-Tekhnologicheskii Institut imeni D. I. Mendeleeva (1973), 73, 21-3
CODEN: TMKIAT; ISSN: 0320-3220
DT Journal
LA Russian

L7 ANSWER 4 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1964:496105 CAPLUS
DN 61:96105
OREF 61:16734g-h,16735a-b
TI Methods to utilize **potash** in agriculture
AU Strebkov, I. M.
SO Khim. v Sel'sk. Khoz. (1964), (4), 16-20
DT Journal

LA Unavailable

L7 ANSWER 5 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1963:413692 CAPLUS
DN 59:13692
OREF 59:2409g-h,2410a
TI The heat and material exchange between **hygroscopic** packing material and mine damp
AU Angeneyndt, Jan Derk
CS Tech. Univ., Berlin
SO Bergbauwissenschaften (1962), 9, 521-34
DT Journal
LA German

L7 ANSWER 6 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1957:44682 CAPLUS
DN 51:44682
OREF 51:8335b-d
TI Methodology of determining unstable compounds directly at water-source in regional hydrogeologic investigations
AU Sokolov, I. Yu.; Kuznetsova, Z. I.
CS All-Union Sci. Research Inst. Hydrogeol. and Eng. Geol., Moscow
SO Gidrokhim. Materialy (1955), 24, 15-18
DT Journal
LA Unavailable

L7 ANSWER 7 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1953:51385 CAPLUS
DN 47:51385
OREF 47:8679f-h
TI Synthesis and study of the 3-diethylaminopropyl ether of 2-methoxy-6-allylphenol
AU Khaletskii, A. M.; Sokolova, T. I.
CS Leningrad Chem.-Pharm. Inst.
SO Zhur. Obshchei Khim. (1952), 22, 1648-50
DT Journal
LA Unavailable

L7 ANSWER 8 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1948:23876 CAPLUS
DN 42:23876
OREF 42:5147c-i,5148a
TI Role of **potash** in growth and nutrition of Maryland tobacco
AU Bowling, J. D.; Brown, D. E.
CS U.S. Dept. Agr., Washington, DC
SO U.S. Dept. Agr., Tech. Bull. (1947), No. 933, 28 pp.
DT Journal
LA Unavailable

L7 ANSWER 9 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1944:10668 CAPLUS
DN 38:10668
OREF 38:1600e-h
TI Use of NH4NO3 in mixed fertilizers
AU Hardesty, J. O.; Yee, J. Y.; Gaddy, V. L.; Parker, F. W.
SO Am. Fertilizer (1943), 99(No. 8;No. 9), 5-7,20-2,24;10-11
DT Journal
LA Unavailable

L7 ANSWER 10 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1944:10667 CAPLUS
DN 38:10667
OREF 38:1600e-h
TI Use of NH4NO3 in mixed fertilizers

AU Hardesty, J. O.; Yee, J. Y.; Gaddy, V. L.; Parker, F. W.
SO Com. Fertilizer (1943), 67(No. 6), 32-8
DT Journal
LA Unavailable

L7 ANSWER 11 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1940:46158 CAPLUS
DN 34:46158
OREF 34:7069e-g
TI The formation of salt solutions in **potash** mines
AU Kier, Karl
SO Chimie & industrie (1940), 43, 823
DT Journal
LA Unavailable

L7 ANSWER 12 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1940:46157 CAPLUS
DN 34:46157
OREF 34:7069e-g
TI The formation of salt solutions in **potash** mines
AU Kier, Karl
SO Kali (1939), 33, 141-4,165-7
DT Journal
LA Unavailable

L7 ANSWER 13 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1940:24161 CAPLUS
DN 34:24161
OREF 34:3703f-i,3704a-d
TI Syntheses of derivatives of p-aminobenzenesulfonamide
AU Drozdov, N. S.; Stavrovskaya, V. I.
SO J. Gen. Chem. (U. S. S. R.) (1939), 9, 1642-6
DT Journal
LA Unavailable

L7 ANSWER 14 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1928:10887 CAPLUS
DN 22:10887
OREF 22:1291g-i,1292a-c
TI Boric acids and alkali borates. III. The solid alkali mono- and poly-borates
AU Menzel, Heinrich
SO Z. anorg. allgem. Chem. (1927), 166, 63-98
DT Journal
LA Unavailable

L7 ANSWER 15 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1925:16256 CAPLUS
DN 19:16256
OREF 19:2115c-d
TI The use of calcined and of hydrated **potash** for lead crystal, and for zinc-barium-lead crystal glass
AU Japhe, D.
SO J. Soc. Glass Technology (1924), 8, 241
DT Journal
LA Unavailable

L7 ANSWER 16 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1925:16255 CAPLUS
DN 19:16255
OREF 19:2115c-d
TI The use of calcined and of hydrated **potash** for lead crystal, and for zinc-barium-lead crystal glass
AU Japhe, D.

SO Sprechsaal (1924), 57, 565
DT Journal
LA Unavailable

L7 ANSWER 17 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1923:23936 CAPLUS
DN 17:23936
OREF 17:3620b-c
TI Soaps
IN Legradi, T.
DT Patent
LA Unavailable
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 194662		19221205	GB	

L7 ANSWER 18 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1923:17858 CAPLUS
DN 17:17858
OREF 17:2791g-h
TI Solid **potash** soaps
AU Leimdorfer, J.
SO Seifensieder Ztg. (1923), 50, 193-4
DT Journal
LA Unavailable

L7 ANSWER 19 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1922:5843 CAPLUS
DN 16:5843
OREF 16:1015f
TI The use of soda and **potash** salts in dyeing
AU Anon.
SO Industrie chimique (1921), 8, 370
DT Journal
LA Unavailable

L7 ANSWER 20 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1922:5842 CAPLUS
DN 16:5842
OREF 16:1015f
TI The use of soda and **potash** salts in dyeing
AU Anon.
SO L'Avenir textile (1921) p. 415
DT Journal
LA Unavailable

L7 ANSWER 21 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1921:11548 CAPLUS
DN 15:11548
OREF 15:2145b-f
TI Composition of fertilizer prepared by treating lime with end-liquors from **potash** works
AU Gorbing, J.
SO Z. offentl. Chem. (1920), 26, 205-13
DT Journal
LA Unavailable

L7 ANSWER 22 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1917:5864 CAPLUS
DN 11:5864
OREF 11:1243d-e
TI Marine kainite
CS U. S. Com. Rep.

SO J. Soc. Chem. Ind. (1916), 35, 1074
DT Journal
LA Unavailable

L7 ANSWER 23 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1916:7240 CAPLUS
DN 10:7240
OREF 10:1393c-e
TI Determination of **potash** in fertilizers
AU Pilz, Ferdinand
SO Z. landw. Versw. (1915), 18, 77-108
DT Journal
LA Unavailable

L7 ANSWER 24 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1912:4128 CAPLUS
DN 6:4128
OREF 6:671b-e
TI Production of Hydrogen in the Dry Way
AU Sander, A.
SO Chem. Ztg. (1912), 35, 1273-4
DT Journal
LA Unavailable

L7 ANSWER 25 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1910:13077 CAPLUS
DN 4:13077
OREF 4:2346g-h
TI Experiments with New Nitrogenous Manures
AU Hendrick, J.
SO Aberdeen Col. Agr., Bull. (1910), 13,
DT Journal
LA Unavailable

L7 ANSWER 26 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1909:6732 CAPLUS
DN 3:6732
OREF 3:1263f-g
TI Rinneite, a New Ferrous Chloride Mineral
AU Boeke, H. E.
CS Konigsberg
SO Centr. Min. (1909) 72-6
DT Journal
LA Unavailable

L7 ANSWER 27 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1908:2412 CAPLUS
DN 2:2412
OREF 2:587d-i,588a
TI Japanese Paper
AU Setlik, B.
CS Technol. Museum, Prague
SO Papier-Ztg. (1908), Volume Date Aug 1908-Nov 1908, 32,
2854-5,3198-200,3738-9,4018-20
DT Journal
LA Unavailable

L7 ANSWER 28 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1908:2198 CAPLUS
DN 2:2198
OREF 2:537e-i,538a-i,539a-b
TI On Phenopyrylium and Higher Homologous and Isologous Pyrylium Rings
AU Decker, Herman; von Fflenberg, Theodor
SO Ann. (1908), 356, 281-342

DT Journal
LA Unavailable

L7 ANSWER 29 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1907:7745 CAPLUS
DN 1:7745
OREF 1:1845g-i,1846a-e
TI Ester-acids of Thiocarbonic Acids and Aliphatic Oxyacids
AU Holmberg, B.
CS Lund
SO J. pr. Chem. (1907), 75, 169-87
DT Journal
LA Unavailable

=> d abs 3

L7 ANSWER 3 OF 29 CAPLUS COPYRIGHT 2003 ACS
AB During absorption of moisture by calcined **potash**, the change of interplanar distances corresponds to the formation of the crystal hydrate K2CO3.1.5H2O. The x-ray diagram of **potash** samples kept in air revealed diffraction lines indicating the formation of KHCO3, owing to absorption of CO2 and H2O. When moisture is absorbed by calcined **potash**, the latter is quickly transformed into the crystal hydrate, water is bound chem., and the product preserves its free-flowing property and does not cake. This phenomenon continues until all the calcined **potash** is converted to K2CO3.1.5H2O. The water further absorbed is not bound and remains in the **potash** as **hygroscopic** water. From then on, a variation in temp. and moisture of the surrounding air results in a redn. of the free-flowing properties of **potash** and it begins to cake.

=> d abs 2

L7 ANSWER 2 OF 29 CAPLUS COPYRIGHT 2003 ACS
AB The hygroscopicity of calcined K2CO3 and K2CO3.cntdot.1.5H2O was suppressed by spraying with H3PO4 owing to the formation of a low-**hygroscopic** film of KH2PO4. The method was applied to prevent caking of **potash**, mainly used as a fertilizer, during long-term storage.

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	95.84	96.05

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.26	-3.26

FILE 'REGISTRY' ENTERED AT 14:46:51 ON 08 JAN 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 7 JAN 2003 HIGHEST RN 478336-86-6
DICTIONARY FILE UPDATES: 7 JAN 2003 HIGHEST RN 478336-86-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> s calcined potash/cn
L8 0 CALCINED POTASH/CN

=> s anhydrous potash/cn
L9 0 ANHYDROUS POTASH/CN

=> s potash
L10 10 POTASH

=> d 1-10

L10 ANSWER 1 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 308074-08-0 REGISTRY *
* Use of this CAS Registry Number alone as a search term in other STN files may
result in incomplete search results. For additional information, enter HELP
RN* at an online arrow prompt (=>).
CN Feldspar-group minerals, potassium (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Potassium feldspars
OTHER NAMES:
CN Feldspar, potassic
CN Feldspar, potassium
CN Feldspars, potassium
CN Incusa
CN Norfloat K
CN **Potash feldspar**
CN Potassic feldspar
CN Potassium feldspar
CN Potassium feldspar-group minerals
MF Unspecified
CI MAN, CTS
SR CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L10 ANSWER 2 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 308074-07-9 REGISTRY *
* Use of this CAS Registry Number alone as a search term in other STN files may
result in incomplete search results. For additional information, enter HELP
RN* at an online arrow prompt (=>).
CN Potassium ores (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN **Potash deposits**
OTHER NAMES:
CN **Potash**
CN Potassium deposits
MF Unspecified
CI MAN, CTS
SR CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

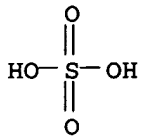
L10 ANSWER 3 OF 10 REGISTRY COPYRIGHT 2003 ACS

RN 12136-45-7 REGISTRY
CN Potassium oxide (K2O) (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Dipotassium monoxide
CN Dipotassium oxide
CN **Potash**
CN Potassium oxide
DR 1343-95-9, 37382-43-7
MF K2 O
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, DETHERM*, DIOGENES, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, TOXCENTER, TULSA, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

K—O—K

12387 REFERENCES IN FILE CA (1962 TO DATE)
68 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
12397 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L10 ANSWER 4 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 10141-00-1 REGISTRY
CN Sulfuric acid, chromium(3+) potassium salt (2:1:1) (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Chrome alum
CN **Chrome potash alum**
CN Chromic potassium sulfate
CN Chromium potassium alum
CN Chromium potassium disulfate
CN Chromium potassium sulfate
CN Chromium potassium sulfate (CrK(SO4)2)
CN Potassium chromium alum
CN Potassium chromium disulfate(kcr(so4)2)
CN Potassium chromium sulfate (KCr(SO4)2)
DR 14766-82-6, 81827-72-7, 81827-73-8
MF Cr . 2 H2 O4 S . K
CI COM
LC STN Files: AGRICOLA, AQUIRE, BIOSIS, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, DETHERM*, GMELIN*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
CRN (7664-93-9)

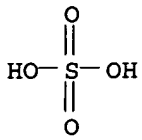


1/2 Cr(III)

●1/2 K

350 REFERENCES IN FILE CA (1962 TO DATE)
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
351 REFERENCES IN FILE CAPLUS (1962 TO DATE)
7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L10 ANSWER 5 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 10043-67-1 REGISTRY
CN Sulfuric acid, aluminum potassium salt (2:1:1) (8CI, 9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Aluminum potassium sulfate (AlK(SO4)2) (6CI)
OTHER NAMES:
CN Alum
CN Alum potassium
CN Aluminum potassium alum
CN Aluminum potassium disulfate
CN Aluminum potassium sulfate
CN Aluminum potassium sulfate (KAl(SO4)2)
CN Aluminum potassium sulfate alum
CN Burnt alum
CN Burnt potassium alum
CN Dialuminum dipotassium sulfate
CN Exsiccated alum
CN **Potash alum**
CN Potassium alum
CN Potassium aluminum alum
CN Potassium aluminum sulfate
CN Potassium aluminum sulfate (1:1:2)
CN Tai-Ace K 150
CN Tai-Ace K 20
DR 131315-49-6
MF Al . 2 H2 O4 S . K
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DRUGU, EMBASE, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, USAN, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
CRN (7664-93-9)



1/2 Al

1/2 K

1763 REFERENCES IN FILE CA (1962 TO DATE)
10 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1765 REFERENCES IN FILE CAPLUS (1962 TO DATE)
6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

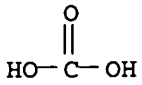
L10 ANSWER 6 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 7447-40-7 REGISTRY
CN Potassium chloride (KCl) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Acronitol
CN Addi-K
CN Apo-K
CN Celeka
CN Cena-K
CN Chloropotassuril
CN Chlorvescent
CN Clor-K-Zaf
CN Diffu-K
CN Durekal
CN Durules
CN Durules-K
CN Enpott
CN Enseal
CN K 10
CN K-Care
CN K-Contin
CN K-Dur
CN K-Lease
CN K-Lor
CN K-Lyte Cl
CN K-Norm
CN K-SR
CN K-Tab
CN Kadalex
CN Kaleorid
CN Kaliduron
CN Kaliglutol
CN Kalilente
CN Kalinor-Retard P
CN Kalinorm
CN Kalinorm Depottab
CN Kaliolite
CN Kalipor
CN Kalipoz
CN Kalitabs
CN Kalitrans Retard
CN Kalium

CN Kalium Duriles
CN Kalium Retard
CN Kalium-Durettes
CN Kalium-R
CN Kaochlor
CN Kaon-Cl
CN Kay-Cee-L
CN Kay-Ciel
CN KCL Retard
CN Keylyte
CN Klor-Con
CN Klorvess
CN **Muriate of potash**
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY
DR 12599-00-7, 126415-35-8, 59217-68-4, 79103-76-7
MF Cl K
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PHAR, PHARMASEARCH, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Cl—K

52168 REFERENCES IN FILE CA (1962 TO DATE)
531 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
52206 REFERENCES IN FILE CAPLUS (1962 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L10 ANSWER 7 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 6381-79-9 REGISTRY
CN Carbonic acid, dipotassium salt, hydrate (2:3) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Carbonic acid, dipotassium salt, sesquihydrate (8CI)
OTHER NAMES:
CN Dipotassium carbonate sesquihydrate
CN **Potash sesquihydrate**
CN Potassium carbonate (K2CO3) sesquihydrate
CN Potassium carbonate 1.5-hydrate
CN Potassium carbonate sesquihydrate
MF C H2 O3 . 3/2 H2 O . 2 K
LC STN Files: CA, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST, CSCHEM, DETHERM*, GMELIN*, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, USPATFULL
(*File contains numerically searchable property data)
CRN (463-79-6)



2 K

3/2 H_2O

36 REFERENCES IN FILE CA (1962 TO DATE)
36 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L10 ANSWER 8 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 1312-76-1 REGISTRY
CN Silicic acid, potassium salt (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 2K
CN 2K (salt)
CN Betolin EP 219
CN Betolin P 35
CN Crystal K 78
CN Inobond K 4009
CN K 120
CN K 120 (silicate)
CN K 4009
CN K 53
CN K 53 (silicate)
CN K 78
CN Kasil
CN Kasil 1
CN Kasil 2130
CN Kasil 2236
CN Kasil 33
CN Kasil 6
CN Kasil 88
CN Kasil SS
CN Kasolv 16
CN Kasolv SS
CN Ohkaseal A
CN Potassium polysilicate
CN Potassium silicate
CN Potassium Silicate 2K
CN Potassium Silicate A
CN Potassium water glass
CN PS 7
CN PS 7 (silicate)
CN Pyramid 120
CN Pyramid K 66
CN SEK
CN Silchem K 1420
CN **Soluble potash glass**
CN **Soluble potash water glass**
CN Trolit AOS
DR 12698-85-0, 11116-04-4
MF Unspecified
CI COM, MAN
LC STN Files: AGRICOLA, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, EMBASE, ENCOMPLIT, ENCOMPLIT2,

ENCOMPPAT, ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, MRCK*, MSDS-OHS,
NIOSHTIC, PDLCOM*, PIRA, PROMT, TOXCENTER, TULSA, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
2910 REFERENCES IN FILE CA (1962 TO DATE)
31 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2915 REFERENCES IN FILE CAPLUS (1962 TO DATE)

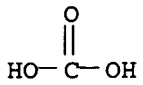
L10 ANSWER 9 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 1310-58-3 REGISTRY
CN Potassium hydroxide (K(OH)) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Potassium hydroxide (8CI)
OTHER NAMES:
CN **Caustic potash**
CN Cyantek CC 723
CN **Potash**
DR 71769-53-4, 29857-72-5
MF H K O
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES,
DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2,
GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS,
NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT, USAN,
USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

K—OH

25100 REFERENCES IN FILE CA (1962 TO DATE)
180 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
25148 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L10 ANSWER 10 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 584-08-7 REGISTRY
CN Carbonic acid, dipotassium salt (8CI, 9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Potassium carbonate (K2CO3) (6CI, 7CI)
OTHER NAMES:
CN Carbonic acid potassium salt (1:2)
CN Dipotassium carbonate
CN Pearl ash
CN **Potash**
CN Potassium carbonate
CN Potassium carbonate (2:1)
CN Potassium carbonate (K2(CO3))
AR 17353-70-7
DR 30095-94-4
MF C H2 O3 . 2 K
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*,
DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT,

ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*,
MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, TOXCENTER,
TULSA, USAN, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
CRN (463-79-6)



2 K

13972 REFERENCES IN FILE CA (1962 TO DATE)
128 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
13994 REFERENCES IN FILE CAPLUS (1962 TO DATE)
6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	30.66	126.71

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-3.26

FILE 'CAPLUS' ENTERED AT 14:48:36 ON 08 JAN 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 8 Jan 2003 VOL 138 ISS 2
FILE LAST UPDATED: 7 Jan 2003 (20030107/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> s anhydrous and calcined

```
          13632 ANHYDROUS
          88913 ANHYD
              5 ANHYDS
          88916 ANHYD
                (ANHYD OR ANHYDS)
          97375 ANHYDROUS
                (ANHYDROUS OR ANHYD)
          45555 CALCINED
L11         706 ANHYDROUS AND CALCINED

=> s l11 and (potassium carbonate or potash)
         465767 POTASSIUM
             15 POTASSIUMS
         465770 POTASSIUM
                (POTASSIUM OR POTASSIUMS)
         221236 CARBONATE
          56450 CARBONATES
         250352 CARBONATE
                (CARBONATE OR CARBONATES)
          12597 POTASSIUM CARBONATE
                (POTASSIUM(W)CARBONATE)
           9827 POTASH
              8 POTASHES
           9831 POTASH
                (POTASH OR POTASHES)
L12           17 L11 AND (POTASSIUM CARBONATE OR POTASH)

=> d 1-17

L12  ANSWER 1 OF 17  CAPLUS  COPYRIGHT 2003 ACS
AN   2002:606584  CAPLUS
DN   137:126684
TI   Optical readable paper for OCR and OMR applications and its manufacture
IN   Yuasa, Masanobu; Yano, Tomio; Eguchi, Minoru
PA   Oji Paper Co., Ltd., Japan
SO   Jpn. Kokai Tokkyo Koho, 7 pp.
     CODEN: JKXXAF
DT   Patent
LA   Japanese
FAN.CNT 1
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
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PI   JP 2002227094      A2   20020814       JP 2001-352874   20011119
PRAI JP 2000-362633     A    20001129

L12  ANSWER 2 OF 17  CAPLUS  COPYRIGHT 2003 ACS
AN   1998:66490  CAPLUS
DN   128:77373
TI   Production of synthesis gas from hydrocarbon feedstock by reforming using
     Feitknecht catalysts
IN   Scott, Stephen Bruce John
PA   British Gas Plc, UK
SO   Brit. UK Pat. Appl., 36 pp.
     CODEN: BAXXDU
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   GB 2311790         A1   19971008       GB 1996-7231     19960404
     CA 2250893         AA   19971016       CA 1997-2250893  19970401
     WO 9737930         A1   19971016       WO 1997-GB900    19970401
         W:  AU, CA, JP, KZ, RU, TT, US
         RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
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	AU 9722991	A1	19971029	AU 1997-22991	19970401
	AU 713494	B2	19991202		
	EP 891295	A1	19990120	EP 1997-915555	19970401
	R: AT, BE, DE, DK, ES, FR, GB, GR, IT, NL, SE, IE				
	JP 2000508286	T2	20000704	JP 1997-535945	19970401
	RU 2161120	C2	20001227	RU 1998-119957	19970401
	ZA 9702890	A	19980416	ZA 1997-2890	19970404
PRAI	GB 1996-7231	A	19960404		
	WO 1997-GB900	W	19970401		

L12 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2003 ACS
AN 1996:269700 CAPLUS
DN 124:343541
TI Mechanochemical syntheses of some organometallics
AU Aylmore, M. G.; Lincoln, F. J.; Cosgriff, J. E.; Deacon, G. B.; Gatehouse, B. M.; Sandoval, C. A.; Spiccia, L.
CS Dep. Chem., Univ. Western Australia, Nedlands, 6907, Australia
SO European Journal of Solid State and Inorganic Chemistry (1996), 33(2/3), 109-19
CODEN: EJSCE5; ISSN: 0992-4361
PB Gauthier-Villars
DT Journal
LA English

L12 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2003 ACS
AN 1992:574514 CAPLUS
DN 117:174514
TI Purification of inorganic, porous, nonlayered, crystalline materials, the products obtained, and hydrocarbon-conversion process in contact with these materials
IN Chu, Cynthia T. W.; Kresge, Charles T.
PA Mobil Oil Corp., USA
SO U.S., 15 pp. Cont.-in-part of U.S. Ser. No. 625,245.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 13

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5104515	A	19920414	US 1991-720107	19910624
	US 5102643	A	19920407	US 1990-470008	19900125
	US 5098684	A	19920324	US 1990-625245	19901210
PRAI	US 1990-470008	A2	19900125		
	US 1990-625245	A2	19901210		

L12 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2003 ACS
AN 1992:511120 CAPLUS
DN 117:111120
TI process for the preparation of catalyst supports from alkali metal carbonates and alcohols
IN Schubert, Paula F.; Kubicek, Donald H.
PA Phillips Petroleum Co., USA
SO U.S., 7 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5128298	A	19920707	US 1991-726428	19910705
PRAI	US 1991-726428		19910705		

L12 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2003 ACS
AN 1991:8550 CAPLUS

DN 114:8550
TI Supported inorganic nitrate-containing olefin dimerization catalysts
IN Drake, Charles A.
PA Phillips Petroleum Co., USA
SO U.S., 6 pp.
CODEN: USXXAM
DT Patent
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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4950632	A	19900821	US 1989-375563	19890705
	US 5105048	A	19920414	US 1990-511151	19900419
	CA 2017591	AA	19910105	CA 1990-2017591	19900525
	NO 9002989	A	19910107	NO 1990-2989	19900704
	EP 406867	A1	19910109	EP 1990-112865	19900705
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	JP 03109403	A2	19910509	JP 1990-178471	19900705
PRAI	US 1989-375563		19890705		

OS CASREACT 114:8550

L12 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2003 ACS
AN 1989:499864 CAPLUS
DN 111:99864
TI Manufacture of free-flowing, noncaking **potassium carbonate** hydrate
IN Fuetterer, Helmut; Schuebl, Herbert; Fuetterer, Klaus Dieter
PA VEB Kombinat Kali, Ger. Dem. Rep.
SO Ger. (East), 7 pp.
CODEN: GEXXA8
DT Patent
LA German
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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DD 264902	A1	19890215	DD 1987-308961	19871112
PRAI	DD 1987-308961		19871112		

L12 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2003 ACS
AN 1989:157152 CAPLUS
DN 110:157152
TI Manufacture of **anhydrous** magnesium carbonate
IN Bumbalek, Vaclav; Horak, Vaclav; Zurek, Frantisek; Prokleska, Frantisek
PA Ustav pro Vyzkum Rud, Czech.
SO Eur. Pat. Appl., 5 pp.
CODEN: EPXXDW
DT Patent
LA German
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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 302514	A2	19890208	EP 1988-112791	19880805
	EP 302514	A3	19900509		
	R: AT, CH, DE, GB, LI				
	CS 265971	B1	19891114	CS 1987-5837	19870806
	HU 50454	A2	19900228	HU 1988-4089	19880804
	BR 8803890	A	19890221	BR 1988-3890	19880805
	SU 1704626	A3	19920107	SU 1988-4356277	19880805
	JP 01133919	A2	19890526	JP 1988-195325	19880806
PRAI	CS 1987-5837		19870806		

L12 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2003 ACS
AN 1988:476214 CAPLUS
DN 109:76214

TI Method for the manufacture of **anhydrous** and dust-free **calcined potash** with adjustable narrow particle-size distribution
IN Will, Klaus; Elberling, Gunter
PA VEB Kombinat Kali, Ger. Dem. Rep.
SO Ger. (East), 5 pp.
CODEN: GEXXA8
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DD 255328	A1	19880330	DD 1986-298138	19861222
PRAI DD 1986-298138		19861222		

L12 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2003 ACS
AN 1981:124068 CAPLUS
DN 94:124068
TI Fibrous potassium titanate
PA Kyushu Refractories Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 55144417	A2	19801111	JP 1979-52851	19790428
PRAI JP 1979-52851		19790428		

L12 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2003 ACS
AN 1980:149280 CAPLUS
DN 92:149280
TI Synthesis of potassium titanate "Fur-fibers" by the disk process
AU Shimizu, Tadao; Yanagida, Hiroaki; Hashimoto, Koshiro; Nishikawa, Yasuo
CS Dep. Ind. Chem., Chiba Inst. Technol., Narashino, 275, Japan
SO Yogyo Kyokaishi (1980), 88(2), 84-91
CODEN: YGKSA4; ISSN: 0372-7718
DT Journal
LA Japanese

L12 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2003 ACS
AN 1971:553453 CAPLUS
DN 75:153453
TI Crystalline condensed phosphates
PA Monsanto Co.
SO Brit. Amended, 8 pp.
CODEN: BSXXAH
DT Patent
LA English
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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI GB 1066233		19691105		
PRAI US		19630319		
US		19630814		

L12 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2003 ACS
AN 1971:409466 CAPLUS
DN 75:9466
TI Borosilicate glass composition
IN Thomas, George Lindsey
PA General Electric Co.
SO Ger. Offen., 11 pp.

CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2044568		19710506		
PRAI US		19690929		

L12 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2003 ACS
AN 1961:2860 CAPLUS
DN 55:2860
OREF 55:608b-e
TI Separation of primary substituted allyl halides from their mixture with isomeric compounds
IN Leets, K. V.
DT Patent
LA Unavailable
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
SU 128860		19600601	SU	

L12 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2003 ACS
AN 1957:58706 CAPLUS
DN 51:58706
OREF 51:10865d-g
TI Nature of the clay constituents of the raw material of Swiss portland cement
AU Rustom, M.
CS Eidg. Tech. Hochschule, Zurich, Switz.
SO Schweiz. Arch. angew. Wiss. u. Tech. (1956), 22, 197-200
DT Journal
LA Unavailable

L12 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2003 ACS
AN 1943:8156 CAPLUS
DN 37:8156
OREF 37:1358b-d
TI Magnesium: Production and technology
AU Wilson, Philip D.
SO Mining and Met. (1943), 24, 70-1
DT Journal
LA Unavailable

L12 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2003 ACS
AN 1924:2243 CAPLUS
DN 18:2243
OREF 18:339a-b
TI Soaps
IN Welter, A.
DT Patent
LA Unavailable
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 202710		19220520	GB	

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L12 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2003 ACS
AB In the title process, in which K2CO3.1.5H2O is manufd. by evaporative and cooling crystn. of aq. K2CO3 solns. and sepd. from the mother liquor by

centrifugation, the wet hydrate is intimately mixed at 20-200.degree. with a 0.1-2.0% stoichiometric amt. of **calcined** (**anhyd.**) K_2CO_3 for 5 min, whereby the drying of the hydrate is accomplished by hydration of the **calcined** K_2CO_3. This method produces free-flowing, noncaking $K_2CO_3.1.5H_2O$ that is useful for the manuf. of K salts. Thus 1450 kg wet K_2CO_3 hydrate (contg. 237.5 kg water of hydration and 17.5 kg adhering water), obtained by centrifugation of 2 m3 suspension contg. 600 g K_2CO_3/L, were intimately mixed with 90 kg **calcined** K_2CO_3 for 6-7 min to give a free-flowing noncaking product.